**Tiny Tools Rental Application Description 2.0**

# *Introduction*

The Tiny Tools Rental Service is your one-stop shop for all your tool-related needs. Our database will allow you to create/update customer profiles, manage orders, and organize your tool inventory. It includes features such as historical tracking for phone numbers, order return dates, and rental prices. Employees will need to familiarize themselves with the forms and reports used to navigate our database.

The Tiny Tools Rental Application consists of a front end created in Microsoft Access and a backend Oracle database. The front end contains forms, reports, and queries that link to the Oracle database. Any data modified through the front end will be updated in the database. All data entry should be performed through the forms. Manipulation of the backend database will be maintained and handled by our team as needed.

Forms that employees will use include frmCustomerProfile, frmOrder, frmReturnTool, and frmToolInventory. Forms prefixed with sfrm are not to be used by the employees as they are included as subforms in the main forms.

# *Relationship Between Entities As Specified*

* Customers are **related-to** orders
* Each order **contains** an order-line and each order-line **contains** atool
* Each tool **is-a** ‘type’ of tool (for example, screwdriver, chainsaw, powerdrill, etc.)
* Each tool has a recorded previous model (**hierarchical**).
* The following have become historical attributes (fields of tables that keep a record of the changes made to them)
  + **Rental Price (**table **Tools**; part of an **IS-A** relationship)
  + **Return Date (**table **Orders**; part of a **HAS-A** relationship)
  + **Phones (**table **Customers**; part of a **RELATED TO** relationship)
  + In short, there is now a recorded history for the rental price of tools, the return dates of orders and phone numbers of customers.

# *Business Rules As Specified By Tiny Tools Co.*

* One customer may have zero or many orders
* One order may belong to only one customer
* One order may contain many order lines
* One tool may belong to many order lines
* Each tool is part of a tool type
* Tool types may contain one or many individual tools
* An order can have one current return date and the return date can be changed many times
* A tool can have one current rental price and the rental price can be changed many times
* A customer can have one current phone number and the phone number can be changed many times
* Cost of an order is calculated as follows:
  + The order total will be the sum of all ordered tools
    - Each tool will have a rental price
    - The rental price will be charged per unit
  + The flat fee is calculated by multiplying the amount of days the tools will be rented by $10.00
  + Tax is set to 13%
* An order can only have an order status of ongoing or complete
* If the rental price of a tool changes while the customer has an ongoing order, the new rental price for that tool will apply